

- 7. A method as recited in claim 1 further comprising inserting a plurality of inversion bits into the transmittable data packet, wherein the plurality of inversion bits maintain DC balance and control run length.
- 8. A method of decoding an encoded message received over an interconnect link in a network, the method comprising:

receiving an encoded data packet having a received CRC segment and a payload segment;

calcuating a first CRC value using the payload segment;

decoding the first CRC using a plurality of inversion bits;

decoding the received CRC using the plurality of inversion bits;

comparing the first CRC and the received CRC thereby determining whether the encoded message was received with any erros.



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- 9. A method as recited in claim 8 further comprising removing the plurality of inversion bits from the encoded message.
- 10. A method as recited in claim 8 further comprising determining whether an error in the encoded message resulted from a transmission error.
- 11. A method as recited in claim/10 further comprising comparing a first plurality of preselected bits in the received CR¢ with a second plurality of preselected bits in the first CRC.
- 12. A method as recited in claim 11 wherein both the first plurality of preselected bits and the second plurality of preselected bits have the same bit positions.
- 13. A method as recited in claim 8 further comprising determining whether an error in the encoded message resulted from a non-transmission error.
- 14. A method as recited in claim 13 further comprising comparing a third plurality of preselected bits in the received CRC with a fourth plurality of preselected bits in the first CRC.